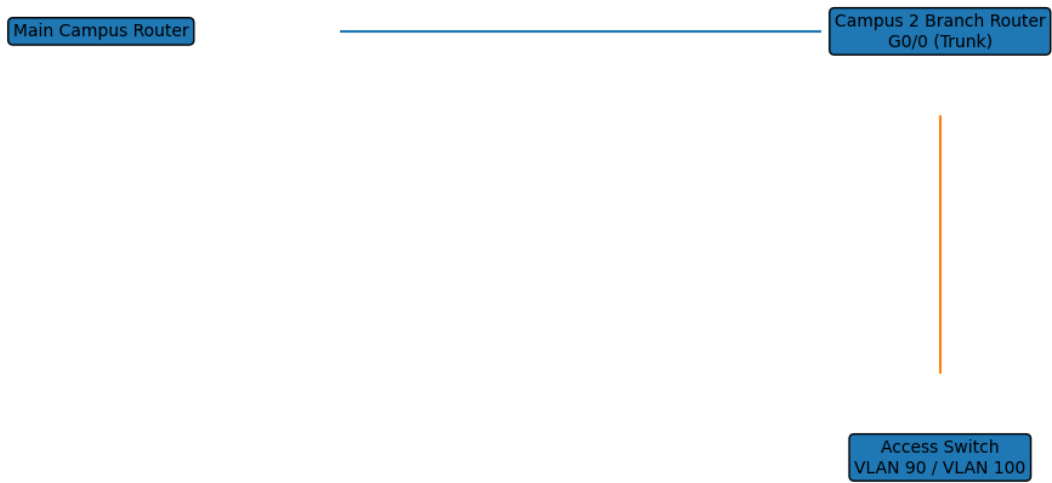# AH Campus 2 Branch Network Configuration Report

1. Project Overview

The AH Campus 2 Branch Network supports staff and student lab users through VLAN-based segmentation. Router-on-a-Stick inter-VLAN routing is implemented, with DHCP services provided by the branch router and RIPv2 enabling WAN connectivity.

2. Network Topology Diagram

3. Address Table

VLAN ID	Network	Network Address	Subnet Mask	Default Gateway
90	Staff	192.168.9.0	255.255.255.0	192.168.9.1
100	Student Lab	192.168.10.0	255.255.255.0	192.168.10.1

4. VLAN and Port Assignment Table

VLAN	VLAN Name	Router Interface	Purpose
90	STAFF	G0/0.90	Staff Users
100	STUDENT-LAB	G0/0.100	Student Lab PCs

5. Switch Configuration

```
hostname Campus2-SW1
!
vlan 90
 name STAFF
```

```
!
vlan 100
 name STUDENT-LAB
!
interface range fa0/1-12
 switchport mode access
 switchport access vlan 90
!
interface range fa0/13-24
 switchport mode access
 switchport access vlan 100
!
interface g0/1
 switchport mode trunk
!
spanning-tree mode pvst
!
end
```

6. Router Configuration

```
hostname Router – Allen H Campus 2 Branch Network
!
ip dhcp pool Staf-pool
 network 192.168.9.0 255.255.255.0
 default-router 192.168.9.1
 dns-server 192.168.9.1
 domain-name wr
!
ip dhcp pool Studlb-pool
 network 192.168.10.0 255.255.255.0
 default-router 192.168.10.1
 dns-server 192.168.10.1
!
interface GigabitEthernet0/0
 no ip address
!
interface GigabitEthernet0/0.90
 encapsulation dot1Q 90
 ip address 192.168.9.1 255.255.255.0
!
interface GigabitEthernet0/0.100
 encapsulation dot1Q 100
```

```
 ip address 192.168.10.1 255.255.255.0
!
interface Serial0/2/0
 ip address 10.10.10.2 255.255.255.252
!
router rip
 version 2
 network 10.0.0.0
 network 192.168.9.0
 network 192.168.10.0
!
end
```